

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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| Applicant's/Registrant's Name & Address UPL Delaware, Inc. 630 Freedom Business Center King of Prussia, PA 19406 | Product UPI Fludioxonil Technical | |

Ingredient Fludioxonil (Chemical Code 71503, CAS Number 131341-86-1)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|------------------------------|---|-------------|--------------------|--------|---------------------------|
| Product Specific Data | | | | | |
| 830.1550 | Product Identity and Composition | 50089601 | UPL Delaware, Inc. | OWN | |
| 830.1600 | Description of Materials Used to Produce the Product | 50089601 | UPL Delaware, Inc. | OWN | |
| 830.1620 | Description of Production Process | 50089601 | UPL Delaware, Inc. | OWN | |
| 830.1650 | Description of Formulation Process | | | | Not required ¹ |
| 830.1670 | Discussion of Formation of Impurities | 50089601 | UPL Delaware, Inc. | OWN | |
| 830.1700 | Preliminary Analysis | 50089602 | UPL Delaware, Inc. | OWN | |
| 830.1750 | Certified Limits | 50089601 | UPL Delaware, Inc. | OWN | |
| 830.1800 | Enforcement Analytical Method | 50089601 | UPL Delaware, Inc. | OWN | |
| | | 50089602 | UPL Delaware, Inc. | OWN | |
| 830.6302 | Color | 50089603 | UPL Delaware, Inc. | OWN | |
| 830.6303 | Physical State | 50089603 | UPL Delaware, Inc. | OWN | |
| 830.6304 | Odor | 50089603 | UPL Delaware, Inc. | OWN | |
| 830.6313 | Stability to Normal and Elevated Temperatures, Metals, and Metal Ions | 50089604 | UPL Delaware, Inc. | OWN | |
| 830.6314 | Oxidation/Reduction: Chemical Incompatibility | 50089605 | UPL Delaware, Inc. | OWN | |
| 830.6315 | Flammability | 50089607 | UPL Delaware, Inc. | OWN | Waiver ² |
| 830.6316 | Explosibility | 50089607 | UPL Delaware, Inc. | OWN | Waiver ³ |

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| Signature  | Name and Title Ann M. Tillman, PhD; Regulatory Consultant | Date Jan. 27, 2020 |
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| 830.6317 | Storage Stability | 50089606 | UPL Delaware, Inc. | OWN | |
| 830.6319 | Miscibility | | | | Not required ⁴ |
| 830.6320 | Corrosion Characteristics | 50089606 | UPL Delaware, Inc. | OWN | |
| 830.6321 | Dielectric Breakdown Voltage | | | | Not required ⁵ |
| 830.7000 | pH | 50089603 | UPL Delaware, Inc. | OWN | |
| 830.7050 | UV/Visible Absorption | 50089603 | UPL Delaware, Inc. | OWN | |
| 830.7100 | Viscosity | | | | Not required ⁶ |
| 830.7200 | Melting Point/Melting Range | 50089603 | UPL Delaware, Inc. | OWN | |
| 830.7220 | Boiling Point/Boiling Range | | | | Not required ⁷ |
| 830.7300 | Density/Relative Density/Bulk Density | 50089603 | UPL Delaware, Inc. | OWN | |
| 830.7370 | Dissociation Constants in Water | 50089607 | UPL Delaware, Inc. | PL | |
| 830.7520 | Particle size, fiber length, diameter distribution | 50089607 | UPL Delaware, Inc. | OWN | Waiver ⁸ |
| 830.7550 | Partition Coefficient (n-octanol/water), Shake Flask Method | 50089607 | UPL Delaware, Inc. | PL | |
| 830.7560 | Partition Coefficient (n-octanol/water), Generator Column Method | | | | See 830.7550 |
| 830.7570 | Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography | | | | See 830.7550 |

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| 830.7840 | Water Solubility: Column Elution Method; Shake Flask Method | 50089607 | UPL Delaware, Inc. | PL | |
| 830.7860 | Water Solubility, Generator Column Method | | | | See 830.7840 |
| 830.7950 | Vapor Pressure | 50089607 | UPL Delaware, Inc. | PL | |
| | | | | | |
| 870.1100 | Acute Oral Toxicity: Rat | 50089608 | UPL Delaware, Inc. | OWN | |
| 870.1200 | Acute Dermal Toxicity: Rat | 50089609 | UPL Delaware, Inc. | OWN | |
| 870.1300 | Acute Inhalation Toxicity: Rat | 50089610 | UPL Delaware, Inc. | OWN | |
| 870.2400 | Primary Eye Irritation: Rabbit | 50089611 | UPL Delaware, Inc. | OWN | |
| 870.2500 | Primary Dermal Irritation | 50089612 | UPL Delaware, Inc. | OWN | |
| 870.2600 | Dermal Sensitization | 50089613 | UPL Delaware, Inc. | OWN | |
| | | | | | |
| Generic Data | | | | | |
| 850.2100 | Acute Avian Oral Toxicity | 43124102 49552301 | Syngenta Crop Protection, LLC | OLD PAY | See endnote ⁹ |
| 850.2200 | Acute Avian Dietary Toxicity | 43124103 43124104 | | OLD OLD | See endnote ¹⁰ |
| 850.2400 | Wild Mammal Toxicity | | | | Not required ¹¹ |

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| 850.2300 | Avian Reproductive Toxicity | 43080007 43080006 | | OLD OLD | See endnote ¹² |
| 850.2500 | Simulated or Actual Field Testing | | | | Not required ¹³ |
| 850.1075 | Freshwater Fish Toxicity | 43080008 43080009 49781908 49781909 | Syngenta Crop Protection Syngenta Crop Protection | OLD OLD PAY PAY | See endnote/ Waiver ¹⁴ |
| 850.1010 | Freshwater Invertebrate Toxicity | 43080010 49781906 49781907 | Syngenta Crop Protection Syngenta Crop Protection | OLD PAY PAY | See endnote ¹⁵ |
| 850.1025, 850.1035, 850.1045, 850.1055, 850.1075 | Acute Toxicity Estuarine and Marine Organisms | 43080013 43080011 43080012 | | OLD OLD OLD | See endnote ¹⁶ |
| 850.1300 | Aquatic Invertebrate Life Cycle (Freshwater) | 49407901 | Syngenta Crop Protection | PAY | See endnote ¹⁷ |
| 850.1350 | Aquatic Invertebrate Life Cycle (Saltwater) | | | | Not required ¹⁸ |
| 850.1400 | Fish Early Life Stage (Freshwater) | 43080014 44382302 | | OLD OLD | See endnote ¹⁹ |
| 850.1400 | Fish Early Life Stage (Saltwater) | | | | Not required ²⁰ |
| 850.1500 | Life Cycle Fish | | | | Not required ²¹ |

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| 850.1710, 850.1730, 850.1850 | Aquatic Organisms Bioavailability, Biomagnification, Toxicity | 44382320 | | OLD | See endnote ²² |
| 850.1950 | Simulated or Actual Field Testing for Aquatic Organisms | | | | Not required ²³ |
| 850.1735 | Whole Sediment: Acute Freshwater Invertebrates | | | | Not required ²⁴ |
| 850.1740 | Whole Sediment: Acute Marine Invertebrates | | | | Not required ²⁵ |
| SS-WholeSed | Whole Sediment: Chronic Invertebrates (Freshwater and Marine) | | | | Not required ²⁶ |
| 850.3020 | Honey Bee Acute Contact Toxicity | 43080047 | | OLD | See endnote ²⁷ |
| 850.3030 | Honeybee Toxicity of Residues on Foliage | | | | Not required ²⁸ |
| 850.3040 | Field Testing for Pollinators | | | | Not required ²⁹ |
| | | | | | |
| 870.6100 | Delayed Neurotoxicity (Acute) – Hen | | | | Not required |
| 870.6200 | Acute Neurotoxicity – Rat | | | | Waiver ³⁰ |
| 870.3100 | 90-Day Oral: Rodent | 43080026 43080027 43080028 43080029 45530201 | | OLD OLD OLD OLD OLD | See endnote ³¹ |

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| 870.3150 | 90-Day Oral: Non-Rodent | 43080026 43080027 43080028 43080029 45530201 | | OLD OLD OLD OLD OLD | See endnote ³² |
| 870.3200 | 21/28-Day Dermal Toxicity | 43080030 | | OLD | See endnote ³³ |
| 870.3250 | 90-Day Dermal Toxicity | | | | Not required |
| 870.3465 | 90-Day Inhalation Toxicity | 49522706 | Syngenta Crop Protection | PAY | Waiver ³⁴ |
| 870.6100 | 28-Day Delayed Neurotoxicity Hen | | | | Not required |
| 870.6200 | 90-Day Neurotoxicity | 49522707 | Syngenta Crop Protection | PAY | See endnote ³⁵ |
| 870.4100 | Chronic Oral Rodent | 43080037 | | OLD | See endnote ³⁶ |
| 870.4200 | Carcinogenicity | 43080032 43080033 43080037 43550102 43550103 43934001 | | OLD OLD OLD OLD OLD OLD | See endnote ³⁷ |
| 870.3700 | Reproduction/Developmental Toxicity Screening Test | 43080034 43080035 | | OLD OLD | See endnote ³⁸ |

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Ingredient Fludioxonil (Chemical Code 71503, CAS Number 131341-86-1)

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|---|---|--|-----------|---|----------------------------|
| 870.3800 | 2-Generation Reproduction: Rat | 43080036 | | OLD | See endnote ³⁹ |
| 870.6300 | Developmental Neurotoxicity Study | | | | Not required ⁴⁰ |
| 870.5000 | Genetic Toxicity Tests | 43080039 43080040 43080041 43080042 43080043 43080044 43152501 44382304 45062201 | | OLD OLD OLD OLD OLD OLD OLD OLD OLD | |
| 870.5100 | Bacterial Reverse Mutation Test | 43080038 | | OLD | See endnote ⁴¹ |
| 870.5300, 830.5375 | <i>In vitro</i> Mammalian Cell Assay | 43152501 43080040 | | OLD OLD | See endnote ⁴² |
| 870.5385, 870.5395, 870.5450, 870.5550 | <i>In vivo</i> Cytogenetics and Other Effects | 43080042 43080041 43080043 43080039 43080044 | | OLD OLD OLD OLD OLD | See endnote ⁴³ |

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| 870.7485 | Metabolism and Pharmacokinetics | 43080045 43080046 43445901 43445902 | | OLD OLD OLD OLD | See endnote ⁴⁴ |
| 870.7200 | Companion Animal Safety | | | | Not required |
| 870.7600 | Dermal Penetration | | | | Not required ⁴⁵ |
| 870.7800 | Immunotoxicity | 48478502 | Syngenta Crop Protection | PAY | See endnote ⁴⁶ |
| | | | | | |
| 875.1100 | Dermal Exposure – Outdoor | | Agricultural Handlers Exposure Task Force | OWN | See endnote ⁴⁷ |
| 875.1200 | Dermal Exposure – Indoor | | | | Not required |
| 875.1300 | Inhalation Exposure – Outdoor | | Agricultural Handlers Exposure Task Force | OWN | See endnote ⁴⁷ |
| 875.1400 | Inhalation Exposure - Indoor | | | | Not required |
| 875.1500 | Biological Monitoring | | Agricultural Handlers Exposure Task Force | OWN | See endnote ⁴⁷ |
| 875.1600 | Data Reporting and Calculations | | Agricultural Handlers Exposure Task Force | OWN | See endnote ⁴⁷ |
| 875.1700 | Product Use Information | | Agricultural Handlers Exposure Task Force | OWN | See endnote ⁴⁷ |

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| 875.2100 | Dislodgeable Foliar Residue and Turf Transferable Residues | | | | Not required ⁴⁸ |
| 875.2200 | Soil Residue Dissipation | | Agricultural Re-Entry TF Outdoor Residential Exposure TF | OWN OWN | See endnote ⁴⁹ |
| 875.2300 | Indoor Surface Residue Dissipation | | | | Not required |
| 875.2400 | Dermal Exposure | | Agricultural Re-Entry TF Outdoor Residential Exposure TF | OWN OWN | See endnote ⁴⁹ |
| 875.2500 | Inhalation Exposure | | Agricultural Re-Entry TF Outdoor Residential Exposure TF | OWN OWN | See endnote ⁴⁹ |
| 875.2600 | Biological Monitoring | | Agricultural Re-Entry TF Outdoor Residential Exposure TF | OWN OWN | See endnote ⁴⁹ |
| 875.2700 | Product Use Information | | | | Not required |
| 875.2800 | Descriptions of Human Activity | | Agricultural Re-Entry TF Outdoor Residential Exposure TF | OWN OWN | See endnote ⁴⁹ |

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| 875.2900 | Data Reporting and Calculations | | Agricultural Re-Entry TF Outdoor Residential Exposure TF | OWN OWN | See endnote ⁴⁹ |
| 875.3000 | Nondietary Ingestion Exposure | | Agricultural Re-Entry TF Outdoor Residential Exposure TF | OWN OWN | See endnote ⁴⁹ |
| | | | | | |
| 201-1 | Droplet Size Spectrum | | | | Not required ⁵⁰ |
| 202-1 | Droplet Size Spectrum | | | | Not required ⁵⁰ |
| | | | | | |
| 850.4100 | Tier 1: Seedling Emergence | 48526503 | Syngenta Crop Protection | PAY | See endnote ⁵¹ |
| 850.4150 | Tier 1: Vegetative Vigor | 48526504 | Syngenta Crop Protection | PAY | See endnote ⁵² |
| 850.4400, 850.4500 | Tier 1: Aquatic Plant Growth | | | | Not required ⁵³ |
| 850.4100 | Tier 2: Seedling Emergence | 48526503 | Syngenta Crop Protection | PAY | See endnote ⁵¹ |
| 850.4150 | Tier 2: Vegetative Vigor | 48526504 | Syngenta Crop Protection | PAY | See endnote ⁵² |
| 850.4400, 850.4500 | Tier 2: Aquatic Plant Growth | | | | Not required ⁵³ |
| 850.4300 | Terrestrial Field | | | | Not required |
| 850.4450 | Aquatic Field | | | | Not required |
| 850.4025 | Target Area Phytotoxicity | | | | Not required |

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| 835.1110 | Activated Sludge Sorption Isotherm | | | | Not required ⁵⁴ |
| 835.2120 | Hydrolysis | 43152502 | | OLD | See endnote ⁵⁵ |
| 835.2240 | Photodegradation in Water | 43496302 44382308 | | OLD OLD | See endnote ⁵⁶ |
| 835.2410 | Photodegradation in Soil | 43496303 44382308 | | OLD OLD | See endnote ⁵⁷ |
| 835.2370 | Photodegradation in Air | | | | Not required |
| 835.3110, 835.3220, 835.3280 | Ready biodegradability; Porous Pot Study; Simulation Tests to Assess the Biodegradability of Chemicals Discharged in Wastewater | | | | Not required ⁵⁸ |

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Ingredient Fludioxonil (Chemical Code 71503, CAS Number 131341-86-1)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|----------------------------|--------------------------------|-------------|--------------------------|--------|----------------------------|
| 835.4100 | Aerobic Soil Metabolism | 43380513 | | OLD | See endnote ⁵⁹ |
| | | 46294501 | Syngenta Crop Protection | PAY | |
| | | 47169301 | IR-4 | PL | |
| | | 47169302 | IR-4 | PL | |
| | | 47169312 | IR-4 | PL | |
| | | 47169313 | IR-4 | PL | |
| | | 47169314 | IR-4 | PL | |
| | | 48996602 | Syngenta Crop Protection | PAY | |
| | | 48996603 | Syngenta Crop Protection | PAY | |
| | | 48996604 | Syngenta Crop Protection | PAY | |
| 835.4200 | Anaerobic Soil Metabolism | 47169303 | IR-4 | PL | See endnote ⁶⁰ |
| | | 47169302 | IR-4 | PL | |
| 835.4300 | Aerobic Aquatic Metabolism | 47169304 | IR-4 | PL | See endnote ⁶¹ |
| 835.4400 | Anaerobic Aquatic Metabolism | | | | Not required ⁶² |
| 835.1230 | Leaching/Adsorption/Desorption | 44382311 | | OLD | See endnote ⁶³ |
| | | 44382312 | | OLD | |
| | | 44382313 | | OLD | |
| | | 44382309 | | OLD | |
| | | 44382310 | | OLD | |

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| 835.1410 | Volatility – Laboratory | | | | Not required ⁶⁴ |
| 835.8100 | Volatility – Field | | | | Not required ⁶⁴ |
| 835.6100 | Soil Field Dissipation Study | 44703505 44703538 44382314 | | OLD OLD OLD | |
| 835.6200 | Aquatic Sediment Field Dissipation Study | | | | Not required ⁶⁴ |
| 835.6300 | Forest Field Dissipation Study | | | | Not required ⁶⁴ |
| 835.6400 | Combination and Tank Mixes | | | | Not required |
| 835.7100 | Ground Water Monitoring | | | | Not required ^{64,65} |
| 850.6100 | Environmental Chemistry Methods | | | | Not required ⁶⁴ |
| | | | | | |

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|----------------------------|----------------------------------|-------------|-----------|--------|------|
| 860.1300 | Nature of the Residue: Plants | 43080050 | | OLD | |
| | | 43143301 | | OLD | |
| | | 43960410 | | OLD | |
| | | 44554201 | | OLD | |
| | | 44554202 | | OLD | |
| | | 44554203 | | OLD | |
| | | 44703537 | | OLD | |
| | | 44926101 | | OLD | |
| 860.1300 | Nature of the Residue: Livestock | 43470601 | | OLD | |
| | | 43470602 | | OLD | |
| | | 44382323 | | OLD | |
| 860.1850 | Confined Rotational Crops | 43960409 | | OLD | |
| | | 44198401 | | OLD | |

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| 860.1340 | Residue Analytical Methods | 43080051 | | OLD | |
| | | 43080052 | | OLD | |
| | | 43080054 | | OLD | |
| | | 43080055 | | OLD | |
| | | 43960411 | | OLD | |
| | | 43960412 | | OLD | |
| | | 43960413 | | OLD | |
| | | 43960414 | | OLD | |
| | | 44554204 | | OLD | |
| | | 44382325 | | OLD | |
| | | 44382326 | | OLD | |
| | | 44382329 | | OLD | |
| | | 44382330 | | OLD | |
| 860.1360 | Multiresidue Method | 43080053 | | OLD | |
| 860.1380 | Storage Stability | 43690403 | | OLD | |
| | | 44382332 | | OLD | |
| | | 44554205 | | OLD | |

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|----------------------------|---|-------------|-----------|--------|---------------------------|
| 860.1500 | Magnitude of the Residue in Plants: root and tuber vegetables (crop group 1), including leaves (crop group 2) | 43960417 | IR-4 | OLD | |
| | | 43960418 | | OLD | |
| | | 44554210 | | OLD | |
| | | 45682301 | | OLD | |
| | | 47169310 | | PL | |
| | | 47161104 | | PL | |
| | | 47161108 | | PL | |
| | | 49347001 | IR-4 | PL | |
| 860.1500 | Magnitude of the Residue in Plants: bulb vegetables (crop group 3-07) | 44615602 | | OLD | |
| | | 46196501 | | OLD | |
| 860.1500 | Magnitude of the Residue in Plants: leafy vegetables (crop group 4) | 44554207 | IR-4 | OLD | See endnote ⁶⁶ |
| | | 45945001 | | OLD | |
| | | 46006701 | | OLD | |
| | | 48437305 | | PL | |
| | | 48437403 | | PL | |
| | | 48481701 | | PL | |
| | | 48499801 | | PL | |

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|----------------------------|--|-------------|-----------|--------|------|
| 860.1500 | Magnitude of the Residue in Plants: Brassica vegetables (crop group 5) | 44703529 | IR-4 | OLD | |
| | | 45726001 | | OLD | |
| | | 45726002 | | OLD | |
| | | 45726101 | | OLD | |
| | | 45726102 | | OLD | |
| | | 45839801 | | OLD | |
| | | 47169311 | | PL | |
| 860.1500 | Magnitude of the Residue in Plants: legume vegetables (crop group 6), including foliage (crop group 7) | 44554208 | | OLD | |
| | | 46014701 | | OLD | |
| | | 46014702 | | OLD | |
| | | 46014703 | | OLD | |
| | | 46016701 | | OLD | |
| | | 46016702 | | OLD | |
| | | 46016703 | | OLD | |
| 860.1500 | Magnitude of the Residue in Plants: fruiting vegetables (crop group 8-10) | 47161101 | IR-4 | PL | |
| | | 48437304 | IR-4 | PL | |
| | | 48437401 | IR-4 | PL | |
| | | 48437402 | IR-4 | PL | |

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| 860.1500 | Magnitude of the Residue in Plants: cucurbit vegetables (crop group 9) | 44554209 47161106 | IR-4 | OLD PL | |
| 860.1500 | Magnitude of the Residue in Plants: cereal grains (crop group 15) | 43124110 43690404 43960416 44715105 43124111 43690404 44554206 44715108 | | OLD OLD OLD OLD OLD OLD OLD OLD | |
| 860.1500 | Magnitude of the Residue in Plants: forage, fodder, and straw of cereal grains (crop group 16) | 43124110 43690404 43960416 44715105 43124111 43690404 44554206 44715108 | | OLD OLD OLD OLD OLD OLD OLD OLD | |

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| 860.1500 | Magnitude of the Residue in Plants: grass forage, fodder, and hay crop group (crop group 17) | 43124110 43124111 43960416 44554206 44554211 44715108 | | OLD OLD OLD OLD OLD OLD | |
| 860.1500 | Magnitude of the Residue in Plants: nongrass animal feeds (crop group 18) | | | | See endnote ⁶⁷ |
| 860.1500 | Magnitude of the Residue in Plants: herbs and spices (crop group 19) | 45795301 45795401 47161103 | IR-4 | OLD OLD PL | |
| 860.1500 | Magnitude of the Residue in Plants: canola/rape (crop subgroup 20A) | 44703528 44703530 | | OLD OLD | See endnote ⁶⁸ |
| 860.1500 | Magnitude of the Residue in Plants: cotton | 44490802 | | OLD | |
| 860.1500 | Magnitude of the Residue in Plants: peanut | | | | See endnote ⁶⁹ |
| 860.1500 | Magnitude of the Residue in Plants: crambe | | | | See endnote ⁷⁰ |
| 860.1500 | Magnitude of the Residue in Plants: flax | | | | See endnote ⁷¹ |
| 860.1500 | Magnitude of the Residue in Plants: jojoba | | | | See endnote ⁷² |
| 860.1500 | Magnitude of the Residue in Plants: lesquerella | | | | See endnote ⁷³ |

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| 860.1500 | Magnitude of the Residue in Plants: safflower | | | | See endnote ⁷⁴ |
| 860.1500 | Magnitude of the Residue in Plants: sunflower | | | | See endnote ⁷⁵ |
| 860.1500 | Magnitude of the Residue in Plants: citrus fruit (crop group 10-10), post-harvest | 46162301 46715501 46715502 47161105 | Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC IR-4 | OLD PAY PAY PL | |
| 860.1500 | Magnitude of the Residue in Plants: pome fruit (crop group 11-10), post-harvest | 46040101 46040102 46715503 48630609 48996101 | Syngenta Crop Protection, LLC Pace International, LLC Syngenta Crop Protection, LLC | OLD OLD PAY PAY PAY | |
| 860.1500 | Magnitude of the Residue in Plants: pomegranate, post-harvest | 46162302 49346904 | IR-4 | OLD PL | |

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| 860.1500 | Magnitude of the Residue in Plants: stone fruit (crop group 12-12), post-harvest | 44893301 | Syngenta Crop Protection, LLC | OLD | |
| | | 44893302 | | OLD | |
| | | 44893303 | | OLD | |
| | | 44893304 | | OLD | |
| | | 45286001 | | OLD | |
| | | 46715505 | | PAY | |
| | | 46715506 | | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: sugar beets, post-harvest | 50265101 | Syngenta Crop Protection, LLC | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: tuberous and corm vegetables (crop subgroup 1C), post-harvest | 43960417 | IR-4 | OLD | |
| | | 43960418 | | OLD | |
| | | 46040103 | | OLD | |
| | | 47161108 | | PL | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: root and tuber vegetables | 43960417 | | OLD | |
| | | 43960418 | | OLD | |

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| 860.1520 | Magnitude of the Residue in Processed Food or Feed: legume vegetables | 46014701 | IR-4 | PL | |
| | | 46014702 | IR-4 | PL | |
| | | 46014703 | IR-4 | PL | |
| | | 46016701 | IR-4 | PL | |
| | | 46016702 | IR-4 | PL | |
| | | 46016703 | IR-4 | PL | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: fruiting vegetables | 47161101 | IR-4 | PL | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: cereal grains | 43124110 | | OLD | |
| | | 43690404 | | OLD | |
| | | 43960416 | | OLD | |
| | | 44715105 | | OLD | |
| | | 43124111 | | OLD | |
| | | 43690404 | | OLD | |
| | | 44554206 | | OLD | |
| | | 44715108 | | OLD | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: canola/rape | 44703528 | | OLD | See endnote ⁷⁶ |
| | | 44703530 | | OLD | |

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| 860.1520 | Magnitude of the Residue in Processed Food or Feed: cotton | 44490802 | | OLD | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: peanuts | | | | See endnote ⁷⁷ |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: flax | | | | See endnote ⁷⁸ |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: safflower | | | | See endnote ⁷⁹ |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: sunflower | | | | See endnote ⁸⁰ |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: citrus fruit (crop group 10-10), post-harvest | 48437404 | IR-4 | PL | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: pome fruit (crop group 11-10), post-harvest | 46040101 46715503 48996101 | Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC | OLD PAY PAY | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: stone fruit (crop group 12-12), post-harvest | 44893304 46715505 | Syngenta Crop Protection, LLC | OLD PAY | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: sugar beets, post-harvest | 50265101 | Syngenta Crop Protection, LLC | PAY | |

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| Signature  | Name and Title Ann M. Tillman, PhD; Regulatory Consultant | Date Jan. 27, 2020 |
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

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| Date January 27, 2020 | EPA Reg No./File Symbol 91813-9 | Page 24 of 29 |
| Applicant's/Registrant's Name & Address UPL Delaware, Inc. 630 Freedom Business Center King of Prussia, PA 19406 | Product UPI Fludioxonil Technical | |

Ingredient Fludioxonil (Chemical Code 71503, CAS Number 131341-86-1)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|----------------------------|---|----------------------|-----------|------------|----------------------------|
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: tuberous and corn vegetables (crop subgroup 1C), post-harvest | 43960417 43960418 | | OLD OLD | |
| 860.1480 | Magnitude of the Residue in Meat, Milk, Poultry, and Eggs | 43960413 43960415 | | OLD OLD | |
| 860.1400 | Nature and Magnitude of the Residue in Potable Water | | | | Not required |
| 860.1400 | Magnitude of the Residue in Fish | | | | Not required |
| 860.1400 | Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water | | | | Not required |
| 860.1460 | Magnitude of the Residue in Food Handling Establishments | | | | Not required |
| 860.1900 | Field Rotational Crops | | | | Not required ⁸¹ |

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Endnotes for UPL Delaware, Inc. UPI Fludioxonil Technical Data Matrix

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- ¹ **830.1650** - These data are not required for the registration of a technical grade active ingredient. See 830.1620 for production process information.
- ² **830.6315** - UPL Delaware, Inc. requests a waiver from the requirement of this data requirement since UPI Fludioxonil Technical is a solid and does not contain flammable components. Please refer to the Confidential Statement of Formula for UPI Fludioxonil Technical.
- ³ **830.6316** - UPL Delaware, Inc. requests a waiver from this data requirement because fludioxonil does not have the chemical bonds or functional groups associated with explosive chemicals.
- ⁴ **830.6319** - This data requirement is required when the product is an emulsifiable liquid and to be diluted with petroleum solvents. UPI Fludioxonil Technical is a solid technical material and therefore this data requirement is not applicable.
- ⁵ **830.6321** - This guideline is not required for registration of a technical grade material.
- ⁶ **830.7100** - These data are required when the product is a liquid. UPI Fludioxonil Technical is a solid and these data are not required.
- ⁷ **830.7220** - This guideline is not required because UPI Fludioxonil Technical is not a liquid at room temperature. Please refer to 830.7200 for melting point data.
- ⁸ **830.7520** - UPL Delaware, Inc. is seeking a waiver for this data requirement for UPI Fludioxonil Technical because the product is not a fibrous material nor is not water insoluble.
- ⁹ **850.2100** - MRID 43124102 is acceptable and satisfies the data requirement as per the June 17, 2011 Problem Formulation for the Environmental Fate, Ecological Risk, Endangered Species, and Drinking Water Exposure Assessments in Support of the Registration Review of Fludioxonil (DP Barcodes 384856 and 387808) (Problem Formulation) and Nov. 8, 2011 Response to the Initial 60-Day Public Comments on "Registration Review - Preliminary Problem Formulation for Environmental Fate, Ecological Risk, Endangered Species, and Drinking Water Exposure Assessments in Support of the Registration Review of Fludioxonil (6/17/2011; DP Barcodes 384856, 387808) (DP Barcode 39421) (EFED Response to Comments). The Problem Formulation and EFED Response to Comments also required the submission of passerine data; it appears this requirement was fulfilled with a dietary study as per the September 27, 2017 Fludioxonil Data Evaluation Records for Ecological Effects Studies (MRIDs) (DP Barcode: 431113) (Ecological DERs).
- ¹⁰ **850.2200** - The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation and EFED Response to Comments.
- ¹¹ **850.2400** - The Problem Formulation states that these data are not required.
- ¹² **850.2300** - The studies cited are supplemental or acceptable, but satisfy the data requirement as per the Problem Formulation and EFED Response to Comments.
- ¹³ **850.2500** - The Problem Formulation states that these data are not required.
- ¹⁴ **850.1075** - MRID Numbers 43080008 and 43080009 are classified as acceptable and satisfy the data requirement as per the Problem Formulation and EFED Response to Comments. The Problem Formulation also required data on the species used for the fish life cycle study. However, since UPL is proposing to register fludioxonil only as a seed treatment and post-harvest, these data are not required. In addition, UPL is not proposing to register any formulations containing chlorothalonil and propiconazole; therefore, end-use data are not cited. As per Agency correspondence, and to expedite amendment approval, UPL is also citing metabolite toxicity data.
- ¹⁵ **850.1010** - MRID 43080010 was classified as acceptable and satisfies the data requirement as per the Problem Formulation and EFED Response to Comments. UPL is not proposing to register any formulations containing chlorothalonil, propiconazole, or cyprodinil; therefore, end-use data are not cited. In addition, since UPL is proposing to register fludioxonil only as a seed treatment and post-harvest, additional data citations are not required. As per Agency correspondence, and to expedite amendment approval, UPL is also citing metabolite toxicity data.

Endnotes for UPL Delaware, Inc. UPI Fludioxonil Technical Data Matrix

- ¹⁶ **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** – These data are only conditionally required for seed treatment and post-harvest uses. However, conservatively, UPL is citing the MRID Numbers 43080011-13 (data on the technical product) which were classified as acceptable and satisfy the data requirement as per the Problem Formulation. Typical end-use product data are not cited.
- ¹⁷ **850.1300** – Although these data are only conditionally required for seed treatment and post-harvest uses, UPL is citing data that were recently submitted in response to the data gap identified in the Problem Formulation.
- ¹⁸ **850.1350** – These data are not required for seed treatment uses or post-harvest uses because the limited use patterns do not meet the criteria for requiring these data.
- ¹⁹ **850.1400** – These data are only conditionally required for seed treatment or post-harvest uses. However, conservatively, UPL is citing the MRID Numbers 43080014 and 44382302 which were classified as supplemental but satisfy the data requirement as per the Problem Formulation
- ²⁰ **850.1400** – These data are not required for seed treatment or post-harvest uses because the limited use patterns do not meet the criteria for requiring these data.
- ²¹ **850.1500** – These data are not required for seed treatment or post-harvest uses because the limited use patterns do not meet the criteria for requiring these data.
- ²² **850.1710, 850.1730, 850.1850** – Although not specifically required for seed treatment or post-harvest uses, UPL has conservatively cited MRID 44382320. This study is supplemental, but satisfies the data requirement as per the Problem Formulation and EFED Response to Comments.
- ²³ **850.1950** – The Problem Formulation states that these data are not required.
- ²⁴ **850.1735** – These data are not required for seed treatment or post-harvest uses (the Problem Formulation states that these organisms may be exposed to fludioxonil in water via run-off and spray drift, which are not applicable for the limited use patterns proposed by UPL).
- ²⁵ **850.1740** – These data are not required for seed treatment or post-harvest uses (the Problem Formulation states that these organisms may be exposed to fludioxonil in water via run-off and spray drift, which are not applicable for the limited use patterns proposed by UPL).
- ²⁶ **SS-WholeSed** – The Problem Formulation states that these data are required. However, these data would not be required for seed treatment or post-harvest uses (the Problem Formulation states that these organisms may be exposed to fludioxonil in water via run-off and spray drift, which are not applicable for the limited use patterns proposed by UPL).
- ²⁷ **850.3020** – Although not specifically required for seed treatment and post-harvest uses, UPL has conservatively cited MRID 443080047. The study cited is acceptable and satisfies the data requirement as per the Problem Formulation and EFED Response to Comments.
- ²⁸ **850.3030** – The Problem Formulation states that these data are not required.
- ²⁹ **850.3040** – The Problem Formulation states that these data are not required.
- ³⁰ **870.6200** – The June 13, 2011 Fludioxonil; Human Health Assessment Scoping Document in Support of Registration Review (DP Barcodes D384857 and D387809) (Scoping Document) identified this data requirement as a data gap; it appears a waiver request was submitted to satisfy this data requirement. The July 22, 2015 Fludioxonil Section 3 Registration for Use on Carrots, Stone Fruit, Group 12-12, and Rapeseed, Subgroup 20A; Human Health Risk Assessment (DP Barcode D426863) (2015 Human Health RA) states that HASPOC determined that neurotoxicity data were not required for fludioxonil.
- ³¹ **870.3100** – The study cited was classified as acceptable and satisfies the data requirement as per the 2015 Human Health RA. Note: only one rodent species is required to be cited; therefore, mouse data are not cited.
- ³² **870.3150** – The study cited was classified as acceptable and satisfies the data requirement as per the 2015 Human Health RA.
- ³³ **870.3200** – The study cited was classified as acceptable and satisfies the data requirement as per the 2015 Human Health RA.

Endnotes for UPL Delaware, Inc. UPI Fludioxonil Technical Data Matrix

- ³⁴ **870.3465** – The Scoping Document identified this data requirement as a data gap; it appears a waiver request was submitted to satisfy this data requirement.
- ³⁵ **870.6200** – The Scoping Document identified this data requirement as a data gap; it appears these data were submitted to satisfy this data requirement.
- ³⁶ **870.4100** – The study cited was classified as acceptable and satisfies the data requirement as per the 2015 Human Health RA.
- ³⁷ **870.4200** – The studies cited were classified as acceptable and satisfy the data requirement as per the 2015 Human Health RA.
- ³⁸ **870.3700** – The studies cited were classified as acceptable and satisfy the data requirement as per the 2015 Human Health RA.
- ³⁹ **870.3800** – The study cited was classified as acceptable and satisfies the data requirement as per the 2015 Human Health RA.
- ⁴⁰ **870.6300** – The 2015 Human Health RA states that these data are not required for fludioxonil.
- ⁴¹ **870.5100** – The study cited was classified as acceptable and satisfies the data requirement as per the 2015 Human Health RA.
- ⁴² **870.5300, 830.5375** – The studies cited were classified as acceptable and satisfy the data requirement as per the 2015 Human Health RA.
- ⁴³ **870.5385, 870.5395, 870.5450, 870.5550** – The studies cited were classified as acceptable and satisfy the data requirement as per the 2015 Human Health RA.
- ⁴⁴ **870.7485** – The studies cited in the 2015 Human Health RA do not appear to correspond to fludioxonil. Therefore, previously submitted metabolism data on fludioxonil data are cited and are believed to satisfy the data requirement
- ⁴⁵ **870.7600** – The 2015 Human Health RA states that these data are not required for fludioxonil.
- ⁴⁶ **870.7800** – The Scoping Document identified this data requirement as a data gap; it appears these data were submitted to satisfy that data requirement.
- ⁴⁷ **875.1100, 875.1300, 875.1500, 875.1600, 875.1700** – UPL Delaware, Inc. is a member of the Agricultural Handlers Exposure Task Force (AHETF). A letter of authorization for reliance on AHETF data can be provided upon request.
- ⁴⁸ **875.2100** – These data are not required for seed treatment and post-harvest uses.
- ⁴⁹ **875.2200, 875.2400, 875.2500, 875.2600, 875.2800, 875.2900, 875.3000** – UPL Delaware, Inc. is a member of Agricultural Re-Entry Task Force (ARTF) and Outdoor Residential Exposure Task Force (ORETF). A letter of authorization for reliance on ARTF and ORETF data can be provided upon request.
- ⁵⁰ **201-1, 202-1** – These data are not required for seed treatment and post-harvest uses.
- ⁵¹ **850.4100** – The Problem Formulation and EFED Response to Comments identified this data requirement as a data gap; it appears these data have been submitted under 48526503. UPL is not proposing to register fludioxonil in combination with other active ingredients and is limited to seed treatment and post-harvest uses only.
- ⁵² **850.4150** – The Problem Formulation and EFED Response to Comments identified this data requirement as a data gap; it appears these data have been submitted under 48526504. UPL is not proposing to register fludioxonil in combination with other active ingredients and is limited to seed treatment and post-harvest uses only.
- ⁵³ **850.4400, 850.4500** – These data are not required for seed treatment and post-harvest uses.
- ⁵⁴ **835.1110** – The Problem Formulation and EFED Response to Comments identified this data requirement as a data gap. However, these data are not relevant for seed treatment and post-harvest uses.
- ⁵⁵ **850.2120** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation and EFED Response to Comments.

Endnotes for UPL Delaware, Inc. UPI Fludioxonil Technical Data Matrix

- ⁵⁶ **850.2240** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation and EFED Response to Comments.
- ⁵⁷ **850.2410** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation and EFED Response to Comments.
- ⁵⁸ **835.3110, 835.3220, 835.3280** – The Problem Formulation and EFED Response to Comments identified this data requirement as a data gap. However, these data are not relevant for seed treatment and post-harvest uses.
- ⁵⁹ **835.4100** – Although the studies cited are supplemental, they satisfy the data requirement as per the Problem Formulation and EFED Response to Comments based on additional information submitted by Syngenta (MRID 48996602), but that data on metabolites were required to be submitted. It appears those data were submitted under MRID Numbers 48996603 and 48996604.
- ⁶⁰ **835.4200** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation and EFED Response to Comments. Supplemental data that did not satisfy the data requirement are not cited.
- ⁶¹ **835.4300** – Although the study cited is classified as supplemental, it satisfies the data requirement as per the Problem Formulation and EFED Response to Comments and no additional data are required.
- ⁶² **835.4400** – The EFED Response to Comments states that these data are not required.
- ⁶³ **835.1230** – The studies cited are acceptable or supplemental and satisfy the data requirement as per the EFED Response to Comments.
- ⁶⁴ **835.1410, 835.8100, 835.6200, 835.6300, 835.7100, 850.6100** – These data are not required based on the limited proposed use patterns of only seed treatment and post-harvest uses.
- ⁶⁵ **835.7100** – The Problem Formulation states that these data are not required.
- ⁶⁶ **860.1500** – Foliar residue data were not cited.
- ⁶⁷ **860.1500** – No data have been submitted to support this use pattern because it appears that termination of residue data show that there are no residues in nongrass animal feeds.
- ⁶⁸ **860.1500** – Foliar residue data were not cited.
- ⁶⁹ **860.1500** – No data have been submitted to support this use pattern because it appears that termination of residue data show that there are no residues in peanuts.
- ⁷⁰ **860.1500** – No data have been submitted to support this use pattern because it appears that termination of residue data show that there are no residues in crambe. Also, see rapeseed/canola residue citations.
- ⁷¹ **860.1500** – No data have been submitted to support this use pattern because it appears that termination of residue data show that there are no residues in flax.
- ⁷² **860.1500** – No data have been submitted to support this use pattern because it appears that termination of residue data show that there are no residues in jojoba.
- ⁷³ **860.1500** – No data have been submitted to support this use pattern because it appears that termination of residue data show that there are no residues in lesquerella.
- ⁷⁴ **860.1500** – No data have been submitted to support this use pattern because it appears that termination of residue data show that there are no residues in safflower.
- ⁷⁵ **860.1500** – No data have been submitted to support this use pattern because it appears that termination of residue data show that there are no residues in sunflower.
- ⁷⁶ **860.1520** – Foliar residue data were not cited.
- ⁷⁷ **860.1520** – No data have been submitted to support this use pattern because it appears that termination of residue data show that there are no residues in peanuts.
- ⁷⁸ **860.1520** – No data have been submitted to support this use pattern because it appears that termination of residue data show that there are no residues in flax.

Endnotes for UPL Delaware, Inc. UPI Fludioxonil Technical Data Matrix

⁷⁹ **860.1520** – No data have been submitted to support this use pattern because it appears that termination of residue data show that there are no residues in safflower.

⁸⁰ **860.1520** – No data have been submitted to support this use pattern because it appears that termination of residue data show that there are no residues in sunflower.

⁸¹ **860.1900** – These data are not required based on the limited proposed use patterns of only seed treatment and post-harvest uses.